

6SE7031-7HG84-1JC1

SIMOVERT MASTERDRIVES IGD5 inverter gating module

It generates the documented inverter gate-drive function for a 171 A SIMOVERT MASTERDRIVES power section.

PRODUCT SNAPSHOT

BRAND

Siemens

FAMILY

SIMOVERT MASTERDRIVES 660-690 V inverter h

PART

6SE7031-7HG84-1JC1

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PRODUCT OVERVIEW

It generates the documented inverter gate-drive function for a 171 A SIMOVERT MASTERDRIVES power section.

- 1 Controls the inverter switching devices through the IGD5 interface
- 2 Matches 660-690 V three-phase device hardware
- 3 Supports a 890-930 V DC-link power section
- 4 Provides the predecessor configuration for the JC2 replacement article

SYSTEM COMPONENTS

compatible 171 A SIMOVERT MASTERDRIVES power section

installed gate-drive harness

matching control electronics

approved converter commissioning record

TECHNICAL NOTE

Isolate and discharge the DC link, verify zero energy, record every gate-drive connector and power-section position, then prove pulse blocking and controlled inverter response before enabling the motor.

TECHNICAL DATA

PARAMETER	VALUE
Article number	6SE7031-7HG84-1JC1
Module designation	IGD5
Equipment class	Inverter gating module
AC device voltage	660-690 V 3 AC

PARAMETER	VALUE
AC frequency	50/60 Hz
DC-link voltage	890-930 V DC
Device current	171 A
Successor article	6SE7031-7HG84-1JC2

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6SL3351-1AE37-5BA1	Related Siemens product	View 6SL3351-1AE37-5BA1 page
6SL3352-1AE37-5BA1	Related Siemens product	View 6SL3352-1AE37-5BA1 page
6SE7090-0XX84-3DB1	Related Siemens product	View 6SE7090-0XX84-3DB1 page
6ES7193-4JA00-0AA0	Related Siemens product	View 6ES7193-4JA00-0AA0 page
6ED1052-1MD00-0BA5	Related Siemens product	View 6ED1052-1MD00-0BA5 page
6ES7153-2AA02-0XB0	Related Siemens product	View 6ES7153-2AA02-0XB0 page
6ES7954-8LC04-0AA0	Related Siemens product	View 6ES7954-8LC04-0AA0 page
6AV2124-0QC02-0AX1	Related Siemens product	View 6AV2124-0QC02-0AX1 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

High-voltage inverter power-section service

Controls the inverter switching devices through the IGD5 interface

Masterdrives cabinet restoration

Matches 660-690 V three-phase device hardware

Gate-drive signal-path verification

Supports a 890-930 V DC-link power section

Controlled JC1-to-JC2 replacement planning

Provides the predecessor configuration for the JC2 replacement article

PRODUCT PRECAUTIONS

- 1 Verify the complete 6SE7031-7HG84-1JC1 marking and its documented SIMOVERT MASTERDRIVES 660-690 V inverter hardware position before field work.
- 2 Place the connected equipment in the approved maintenance state before removing 6SE7031-7HG84-1JC1.
- 3 Isolate every applicable power, signal and stored-energy source, then prove a safe state at 6SE7031-7HG84-1JC1.
- 4 Record the installed connectors, terminals, jumpers and channel or node assignments before disconnection.
- 5 Use ESD controls and protect keyed interfaces, edge connectors and exposed electronic assemblies.
- 6 Restore only the approved SIMOVERT MASTERDRIVES 660-690 V inverter hardware hardware arrangement and configuration after replacement.
- 7 Energize 6SE7031-7HG84-1JC1 in the documented sequence and review local, host and network diagnostics.
- 8 Prove the intended controlled function and retain the final acceptance record before production release.

ENGINEER FAQ

Q1 Does 6SE7031-7HG84-1JC1 match compatible 171 A SIMOVERT MASTERDRIVES power section in a High-voltage inverter power-section service installation?

Verify the complete 6SE7031-7HG84-1JC1 marking, the documented SIMOVERT MASTERDRIVES 660-690 V inverter hardware position and the installed compatible 171 A SIMOVERT MASTERDRIVES power section before fitting the assembly.

Q3 Which SIMOVERT MASTERDRIVES 660-690 V inverter hardware records should be captured before removing 6SE7031-7HG84-1JC1?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 6SE7031-7HG84-1JC1 before disconnection.

Q5 Which installed gate-drive harness condition should be checked when 6SE7031-7HG84-1JC1 reports an abnormal state?

Check the installed gate-drive harness supply, seating and connection first, then compare channel diagnostics with the recorded 6SE7031-7HG84-1JC1 baseline.

Q7 What maintenance evidence is required after 6SE7031-7HG84-1JC1 is used for Gate-drive signal-path verification?

Retain the nameplate record, corrective action, final diagnostics and a controlled gate-drive signal-path verification functional-test result for 6SE7031-7HG84-1JC1.

Q2 How should 6SE7031-7HG84-1JC1 be wired when it must controls the inverter switching devices through the igd5 interface?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 6SE7031-7HG84-1JC1; then continuity-test the affected path.

Q4 What controlled test confirms that 6SE7031-7HG84-1JC1 can matches 660-690 v three-phase device hardware?

Apply the approved field or simulated stimulus, observe the SIMOVERT MASTERDRIVES 660-690 V inverter hardware indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can 6SE7031-7HG84-1JC1 be moved directly into Masterdrives cabinet restoration without validating approved converter commissioning record?

No. Confirm the approved converter commissioning record, revision, connection scheme and SIMOVERT MASTERDRIVES 660-690 V inverter hardware configuration before transferring 6SE7031-7HG84-1JC1 to that duty.

Q8 How should 6SE7031-7HG84-1JC1 be returned to service in Controlled JC1-to-JC2 replacement planning?

Restore power under control, verify supports a 890-930 v dc-link power section, exercise the intended signal path and release 6SE7031-7HG84-1JC1 only after the SIMOVERT MASTERDRIVES 660-690 V inverter hardware remains in its approved operating state.

SOURCE Siemens SiePortal product record | 6SE7031-7HG84-1JC1

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